

VREX-0007USAAON00

CLAIMS

Please cancel claims 5 and 27.

1. (Currently Amended) A method for creating a micropolarizer, comprising:
providing a first plate having a first and a second surface;
providing a second plate having a first and a second surface;
coating a polyimide on each of said first surface of said two plates;
exposing said first plate to linearly polarized UV light;
rubbing said polyimide coated upon said first surface of said first plate along a predetermined direction;
rubbing said polyimide coated upon said first surface of said second plate along a direction having a predetermined angle in relation to said predetermined direction;
aligning said first plate and said second plate having said first surface of said first plate and said first surface of said second plate facing each other thereby creating a space there between; and
filling a liquid crystal between said space whereby a cell, or film is created.
2. (Original) The method of claim 1, further comprising:
using a mask having alternate transparent and opaque stripes coving said cell or film whereby a solidifying energy are being selectively applied there through; and
partially solidifying some portions said liquid crystal.
3. (Original) The method of claim 2, further comprising:
removing said mask; and
heating said cell or film to a temperature set point, whereby unsolidified liquid crystals covered by said opaque stripes are being transformed into a different phase.
4. (Original) The method of claim 1, further comprising:
re-solidifying uncured nematics into an isotropic phase.
5. (Cancelled)

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6. (Original) The method of claim 2, wherein:
said solidifying comprises applying an ultraviolet light.
7. (Original) The method of claim 1, wherein:
said space having a substantially equidistance between said first surface of said first plate and said first surface of said second plate.
8. (Original) The method of claim 1, wherein:
said liquid crystal comprises a nematic liquid crystal.
9. (Original) The method of claim 8, wherein:
said nematic liquid crystal comprises a type of polymerizable nematic liquid crystal.
10. (Original) The method of claim 1, wherein: said predetermined angle is about ninety degrees.
11. (Original) The method of claim 1, wherein: said predetermined angle is about forty-five degrees.
12. (Original) The method of claim 1, wherein:
said two plates comprising flat glass plates.
24. (Currently Amended) A method for creating a micropolarizer, comprising:
providing a first plate having a first and second surface;
coating a polyimide on said first surface of said first plate;
exposing said first plate with linearly polarized UV light;
rubbing said polyimide coated upon said first surface of said first plate along a predetermined direction;
coating a photo resist on top of said polyimide;
patterning said photo resist into a predetermined alternatively spaced strips;

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re-rubbing said polyimide coated upon said first surface of said first plate along a direction having a predetermined angle in relation to said predetermined direction; and rinsing off said photo resist.

25. (Original) The method of claim 24, further comprising:
providing a second plate having a first and a second surface;
coating a polyimide on said first surface of said first plate;
rubbing said polyimide coated upon said first surface of said first plate along a predetermined direction;

aligning said first plate and said second plate having said first surface of said first plate and said first surface of said second plate facing each other thereby creating a space there between; and

filling a liquid crystal between said space whereby a cell, or film is created.

26. (Original) The method of claim 24, further comprising:
solidifying said liquid crystal.

27. (Cancelled)

28. (Original) The method of claim 26, wherein:
said solidifying comprises applying an ultraviolet light.

29. (Original) The method of claim 24, further comprising:
re-solidifying uncured nematics into an isotropic phase.

30. (Original) The method of claim 29, wherein:
said solidifying comprises applying an ultraviolet light.

31. (Original) The method of claim 25, wherein:
said space having a substantially equidistance between said first surface of said first plate and said first surface of said second plate.

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32. (Original) The method of claim 24, wherein:
said liquid crystal comprising a nematic liquid crystal.
33. (Original) The method of claim 32, wherein:
said nematic liquid crystal comprising a type of polymerizable nematic liquid crystal.
34. (Original) The method of claim 25, wherein: said predetermined angle is about ninety degrees.
35. (Original) The method of claim 25, wherein:
said two plates comprising flat glass plates.
51. (Cancelled) A twisted nematic micropolarizer, comprising:
an input surface for receiving incident light;
an output surface for emanating a processed light; and
a micropolarizer based on twist nematic liquid crystals produced by a method comprising a liquid crystal display device produced by the method described substantially by claims 1-11.